

Title (en)

SEQUENTIAL SEPARATION OF WHEY PROTEINS AND FORMULATIONS THEREOF

Title (de)

AUFEINANDERFOLGENDE TRENNUNG VON MOLKENEIWEISS' SOWIE FORMULIERUNGEN DERSELBEN

Title (fr)

SEPARATION SEQUENTIELLE DE PROTEINES DE LACTOSERUM ET LEURS PREPARATIONS

Publication

EP 1017286 A4 20040609 (EN)

Application

EP 97944384 A 19970922

Priority

US 9716993 W 19970922

Abstract (en)

[origin: WO9915024A1] A method is disclosed for sequential separation of whey proteins using radial-flow chromatography. Different buffer systems adjusted to suitable pH and ionic strength are utilized in the separation process. The method separates at least five different proteins from whey. Infant feeding formulas, and other food formulations are also disclosed incorporating therein in different proportions various proteins separated from the whey.

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IPC 8 full level

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A23C 9/1465 (2013.01); A23C 11/04 (2013.01); A23J 1/205 (2013.01)

Citation (search report)

- [X] WO 9705884 A1 19970220 - NEW ENGLAND MEDICAL CENTER INC [US]
- [X] EP 0253395 A1 19880120 - MORINAGA MILK INDUSTRY CO LTD [JP]
- [X] WO 9705785 A1 19970220 - MILUPA GMBH & CO KG [DE], et al
- [X] EP 0412590 A1 19910213 - UNILEVER NV [NL], et al
- [XA] FREITAG R ET AL: "CONTROLLED MIXED-MODE INTERACTION CHROMATOGRAPHY ON MEMBRANE ADSORBERS", JOURNAL OF CHROMATOGRAPHY A, ELSEVIER SCIENCE, NL, vol. 728, no. 1/2, 29 May 1996 (1996-05-29), pages 129 - 137, XP002020303, ISSN: 0021-9673
- [XA] HILL A R ET AL: "QUANTIFICATION AND CHARACTERIZATION OF WHEY PROTEIN FRACTIONS SEPARATED BY ANION EXCHANGE CHROMATOGRAPHY", MILCHWISSENSCHAFT, VV GMBH VOLKSWIRTSCHAFTLICHER VERLAG. MUNCHEN, DE, vol. 42, no. 11, 1 November 1987 (1987-11-01), pages 693 - 696, XP000615311, ISSN: 0026-3788
- [X] LAW ET AL.: "QUANTITATIVE FRACTIONATION OF WHEY PROTEINS BY GEL PERMEATION FPLC", MILCHWISSENSCHAFT, vol. 48, no. 12, 1993, pages 663-666, XP002273959
- [X] DATABASE WPI Section Ch Week 199727, Derwent World Patents Index; Class B05, AN 1997-292424, XP002273960
- See references of WO 9915024A1

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